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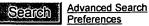
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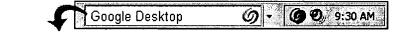
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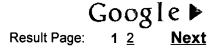
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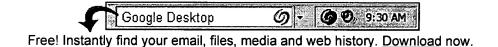### [PDF] COMPUTER ANALYSIS & REINFORCED CONCRETE DESIGN OF BEAMS
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**1**  A predictive tool for quantifying wind erosion from coal surfaces          ▭
Mary Ann Grelinger
December 1983 **Proceedings of the 15th conference on Winter Simulation - Volume 2**
**Publisher:** IEEE Press
Full text available: 🗎 pdf(414.83 KB)   Additional Information: full citation, abstract, references, index terms

  A simulation computer program is described for the quantification of particulate emissions
  generated by wind erosion of coal surfaces. Erosion potentials reported by Cowherd
  provide the basic test data correlating suspended particulate loss with wind speed. Daily
  fastest miles of wind, precipitation and surface disturbances are stochastically simulated.
  Erosion loss is shown to vary according to the probability and the amount of rainfall, the
  frequency of disturbance of the erodible surface ...

**2**  A hybrid of neural net and branch and bound techniques for seismic horizon tracking   ▭
◆ Jay Veezhinathan, Frank Kemp, Jody Threet
  March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing:
          states of the art and practice**
  **Publisher:** ACM Press
  Full text available: 🗎 pdf(468.21 KB)   Additional Information: full citation, references, citings, index terms

**3**  A computer science perspective of bridge design                             ▭
◆ Alfred Spector, David Gifford
  April 1986 **Communications of the ACM**, Volume 29 Issue 4
  **Publisher:** ACM Press

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  What kinds of lessons does a classical engineering discipline like bridge design have for an
  emerging engineering discipline like computer systems design? Case-study editors Alfred
  Spector and David Gifford consider the insight and experience of bridge designer Gerard
  Fox to find out how strong the parallels are.

**4**  Application of virtual reality in the interpretation of geoscience data        ▭
◆ Ching-Rong Lin, R. Bowen Loftin
  November 1998 **Proceedings of the ACM symposium on Virtual reality software and
              technology**

**Publisher:** ACM Press

Full text available: 📄 pdf(2.57 MB)      Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

**Keywords:** 3D interaction technique, data visualization, geoscience data modeling, virtual reality application

5   <u>The cubic mouse: a new device for three-dimensional input</u>

Bernd Fröhlich, John Plate

April 2000  **Proceedings of the SIGCHI conference on Human factors in computing systems**

**Publisher:** ACM Press

Full text available: 📄 pdf(998.57 KB)      Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We have developed a new input device that allows users to intuitively specify three-dimensional coordinates in graphics applications. The device consists of a cube-shaped box with three perpendicular rods passing through the center and buttons on the top for additional control. The rods represent the X, Y, and Z axes of a given coordinate system. Pushing and pulling the rods specifies constrained motion along the corresponding axes. Embedded within the device is a six degree of freedom tracki ...

**Keywords:** two-handed interaction, user interface hardware, virtual reality

6   <u>What have we learnt from using real parallel machines to solve real problems?</u>

G. C. Fox

January 1989 **Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2**

**Publisher:** ACM Press

Full text available: 📄 pdf(4.08 MB)      Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We briefly review some key scientific and parallel processing issues in a selection of some 84 existing applications of parallel machines. We include the MIMD hypercube transputer array, BBN Butterfly, and the SIMD ICL DAP, Goodyear MPP and Connection Machine from Thinking Machines. We use a space-time analogy to classify problems and show how a division into synchronous, loosely synchronous and asynchronous problems is helpful. This classifies problems into those suitable for SIMD or MIMD ...

7   <u>Seeing, hearing, and touching: putting it all together</u>

Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

**Publisher:** ACM Press

Full text available: 📄 pdf(20.64 MB)      Additional Information: <u>full citation</u>

8   <u>Accessing and storing data: Accessing sensor data using meta data: a virtual object ring buffer framework</u>

Arcot Rajasekar, Sifang Lu, Reagan Moore, Frank Vernon, John Orcutt, Kent Lindquist

August 2005 **Proceedings of the 2nd international workshop on Data management for sensor networks DMSN '05**

**Publisher:** ACM Press

Full text available: pdf(1.66 MB)    Additional Information: full citation, abstract, references, index terms

With the proliferation of sensors it is becoming increasingly difficult to discover and access sensor data of interest. Currently, most researchers and sensor data users access data from sensors that they build by themselves or from known sensor network run by their friends; rarely do they try to find sensor data of interest that are maintained by other users and groups. Even if they are able to find these data streams, accessing them is rather difficult because of login requirements in remote s ...

**Keywords**: real-time data access, sensor networks, sensor virtualization, storage resource broker, virtual ring buffers

## 9  Real-time simulated earthquake motion of high rise structures

James Lord
June 1970 **Proceedings of the 7th workshop on Design automation**
**Publisher:** ACM Press
Full text available: pdf(721.33 KB)    Additional Information: full citation, abstract, references, index terms

The real-time simulation of a high rise structure during an earthquake represents a marked step forward in the structural design field. It affords a graphic display of the dynamic behaviour and characteristics of such a structure. The simulation can be presented on a CRT or by means of a 16 or 35 mm. movie and tailored for client or technical viewing. This paper discusses the application of the computer techniques involved in dynamically analyzing and simulating the seismic respo ...

## 10  Interaction, creativity and communication: PHOXEL-SPACE: an interface for exploring volumetric data with physical voxels

Carlo Ratti, Yao Wang, Ben Piper, Hiroshi Ishii, Assaf Biderman
August 2004 **Proceedings of the 2004 conference on Designing interactive systems: processes, practices, methods, and techniques**
**Publisher:** ACM Press
Full text available: pdf(712.22 KB)    Additional Information: full citation, abstract, references, index terms

Three-dimensional datasets (voxel datasets), generated by different types of sensing or computer simulations, are quickly becoming crucial to various disciplines - from biomedicine to geophysics. Phoxel-Space is an interface that enables the exploration of these datasets through physical materials. It aims at overcoming the limitations of traditional planar displays by allowing users to intuitively navigate and understand complex 3-dimensional datasets. The system works by allowing the user to m ...

**Keywords**: 3D laser scanner, anatomy, archeology, augmented reality, biomedicine, computational fluid dynamics (CFD), earth and atmospheric sciences, geophysics, input design and strategies, medical information systems, spatial understanding, tangible user interface, virtual reality, voxel

## 11  Modeling waves and surf

Darwyn R. Peachey
August 1986 **ACM SIGGRAPH Computer Graphics , Proceedings of the 13th annual conference on Computer graphics and interactive techniques SIGGRAPH '86**, Volume 20 Issue 4
**Publisher:** ACM Press
Full text available: pdf(4.87 MB)    Additional Information: full citation, abstract, references, citings, index terms

Although modeling natural phenomena is recognized as one of the greatest challenges of

computer graphics, relatively little time has been spent on modeling ocean waves. The model presented in this paper is suitable for the rendering and animation of waves approaching and breaking on a sloping beach. Waveforms consist of a phase function which correctly produces wave refraction and other depth effects, and a wave profile which changes according to wave steepness and water depth. Particle systems ...

**12** NASA workshop on issues in the application of data mining to scientific data

Jeanne Behnke, Elaine Dobinson
June 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 1
**Publisher:** ACM Press
Full text available: pdf(1.08 MB)      Additional Information: full citation, index terms

**Keywords**: NASA, data mining, earth science, statistics

**13** Blueprint for the future of high-performance networking: Data-intensive e-science frontier research

Harvey B. Newman, Mark H. Ellisman, John A. Orcutt
November 2003 **Communications of the ACM**, Volume 46 Issue 11
**Publisher:** ACM Press
Full text available: pdf(648.86 KB)      Additional Information: full citation, abstract, references, citings, index
html(36.07 KB)                                                                     terms

Large-scale e-science, including high-energy and nuclear physics, biomedical informatics, and Earth science, depend on an increasingly integrated, distributed cyberinfrastructure serving virtual organizations on a global scale.

**14** Prioritized resource allocation for stressed networks

Cory C. Beard, Victor S. Frost
October 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 5
**Publisher:** IEEE Press
Full text available: pdf(253.05 KB)    Additional Information: full citation, abstract, references, index terms

Overloads that occur during times of network stress result in blocked access to all users, independent of importance. These overloads can occur because of degraded resource availability or abnormally high demand. Public broadband networks must dynamically recognize some multimedia connections as having greater importance than others and allocate resources accordingly. A new approach to connection admission control is proposed that uses an upper limit policy to optimize the admission of connectio ...

**Keywords**: Computer network performance, resource management

**15** Paper session KM-2 (knowledge management): index structures: DIST: a distributed spatio-temporal index structure for sensor networks

Anand Meka, Ambuj Singh
October 2005 **Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05**
**Publisher:** ACM Press
Full text available: pdf(189.01 KB)    Additional Information: full citation, abstract, references, index terms

We consider the general problem of tracking moving objects in sensor networks. The specific application we consider is that of tracking a chemical plume moving over a large infrastructure network. We present a distributed index structure *DIST* that stores and

updates distributed summaries as the plume moves. We present algorithms for range queries on the history of the plume. DIST localizes information with respect to time and space using a hierarchy that scales with the plume size. The hi ...

**Keywords**: sensor networks, spatio-temporal indexing

**16** <u>Systems 1: A wireless sensor network For structural monitoring</u>

Ning Xu, Sumit Rangwala, Krishna Kant Chintalapudi, Deepak Ganesan, Alan Broad, Ramesh Govindan, Deborah Estrin

November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**

**Publisher:** ACM Press

Full text available: pdf(731.28 KB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Structural monitoring---the collection and analysis of structural response to ambient or forced excitation--is an important application of networked embedded sensing with significant commercial potential. The first generation of sensor networks for structural monitoring are likely to be data acquisition systems that collect data at a single node for centralized processing. In this paper, we discuss the design and evaluation of a wireless sensor network system (called Wisden for structural dat ...

**Keywords**: Wisden, sensor network, structural health monitoring

**17** <u>Energy Optimization of Subthreshold-Voltage Sensor Network Processors</u>

Leyla Nazhandali, Bo Zhai, Javin Olson, Anna Reeves, Michael Minuth, Ryan Helfand, Sanjay Pant, Todd Austin, David Blaauw

May 2005 **ACM SIGARCH Computer Architecture News , Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05,**
Volume 33 Issue 2

**Publisher:** IEEE Computer Society, ACM Press

Full text available: pdf(269.50 KB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

Sensor network processors and their applications are a growing area of focus in computer system research and design. Inherent to this design space is a reduced processing performance requirement and extremely high energy constraints, such that sensor network processors must execute low-performance tasks for long durations on small energy supplies. In this paper, we demonstrate that subthreshold-voltage circuit design (400 mV and below) lends itself well to the performance and energy demands of s ...

**18** <u>Visualizing geospatial data</u>

Theresa Marie Rhyne, Alan MacEachern, Theresa-Marie Rhyne

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

**Publisher:** ACM Press

Full text available: pdf(13.99 MB)    Additional Information: <u>full citation</u>, <u>abstract</u>

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

**19** <u>The MECCA system—a modified list processing application for library collections</u>

William G. Castner, Andrew L. Calvery, Clarice I. Mac Donald, Ruth E. Peerenboom

January 1966 **Proceedings of the 1966 21st national conference**
**Publisher:** ACM Press
Full text available: 📄 pdf(622.47 KB)    Additional Information: full citation, abstract, references, index terms

The MECCA (Mechanized Catalog) system1 has been in use by Boeing Aerospace Group Technical Library since July 1, 1964. Designed to produce printed library catalogs and to generate a data bank for later machine retrieval, the system is a major modification of an earlier program.2 Prior to 1964, the library manually produced catalog cards for books and documents in its central library and four branches; this operation provided a complete catalog for t ...

**20** gIBIS: a hypertext tool for exploratory policy discussion  ☐
Jeff Conklin, Michael L. Begeman
January 1988 **Proceedings of the 1988 ACM conference on Computer-supported cooperative work**
**Publisher:** ACM Press

Full text available: 📄 pdf(1.48 MB)    Additional Information: full citation, abstract, references, citings, index terms

This paper describes an application specific hypertext system designed to facilitate the capture of early design deliberations. It implements a specific method, called Issue Based Information Systems (IBIS), which has been developed for use on large, complex design problems. The hypertext system described here, gIBIS (for graphical IBIS), makes use of color and a high speed relational database server to facilitate building and browsing typed IBIS networks. Further. gIBIS is designed to supp ...
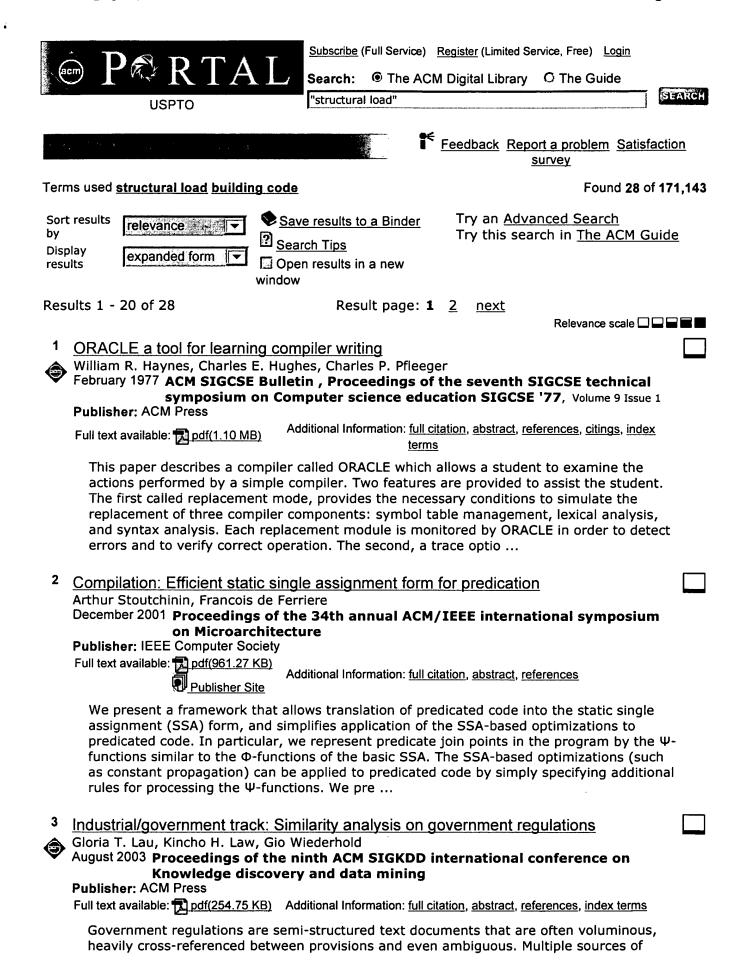
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**1**  ORACLE a tool for learning compiler writing                    ☐
William R. Haynes, Charles E. Hughes, Charles P. Pfleeger
February 1977 **ACM SIGCSE Bulletin , Proceedings of the seventh SIGCSE technical symposium on Computer science education SIGCSE '77**, Volume 9 Issue 1
**Publisher:** ACM Press

Full text available: 🔲 pdf(1.10 MB)    Additional Information: full citation, abstract, references, citings, index terms

This paper describes a compiler called ORACLE which allows a student to examine the actions performed by a simple compiler. Two features are provided to assist the student. The first called replacement mode, provides the necessary conditions to simulate the replacement of three compiler components: symbol table management, lexical analysis, and syntax analysis. Each replacement module is monitored by ORACLE in order to detect errors and to verify correct operation. The second, a trace optio ...

**2**  Compilation: Efficient static single assignment form for predication                    ☐
Arthur Stoutchinin, Francois de Ferriere
December 2001 **Proceedings of the 34th annual ACM/IEEE international symposium on Microarchitecture**
**Publisher:** IEEE Computer Society

Full text available: 🔲 pdf(961.27 KB)
🔲 Publisher Site    Additional Information: full citation, abstract, references

We present a framework that allows translation of predicated code into the static single assignment (SSA) form, and simplifies application of the SSA-based optimizations to predicated code. In particular, we represent predicate join points in the program by the Ψ-functions similar to the Φ-functions of the basic SSA. The SSA-based optimizations (such as constant propagation) can be applied to predicated code by simply specifying additional rules for processing the Ψ-functions. We pre ...

**3**  Industrial/government track: Similarity analysis on government regulations                    ☐
Gloria T. Lau, Kincho H. Law, Gio Wiederhold
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**
**Publisher:** ACM Press

Full text available: 🔲 pdf(254.75 KB)    Additional Information: full citation, abstract, references, index terms

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regulations lead to difficulties in both understanding and complying with all applicable codes. In this work, we propose a framework for regulation management and similarity analysis. An online repository for legal documents is created with the help of text mining tool, and users can access regulatory documents either through the ...

**Keywords**: legal informatics, regulations, similarity analysis, text mining

**4**  E-government services and policy track: An e-government information architecture  ☐
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    **Publisher:** ACM Press

    Full text available: ⬚ pdf(510.70 KB)    Additional Information: full citation, abstract, references, citings, index terms

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    **Keywords**: compliance check, e-government, e-rulemaking, legal informatics, shallow parsing, similarity analysis, text mining

**5**  Design environments for constructive and argumentative design                    ☐
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    Full text available: ⬚ pdf(783.50 KB)    Additional Information: full citation, abstract, references, citings, index terms

    Design Environments are computer systems which support design by enabling cooperative problem solving between designer and computer. There are two complementary problem solving activities in design: constructive design and argumentative design. We have created two computer-supported environments, CRACK and VIEWPOINTS, to support these two activities.CRACK is a knowledge-based critic which has knowledge about how kitchen appliances can be assembled into functional kitchens. VIEWPO ...

**6**  Session: Extreme embedded a report from the front line                    ☐
    Gary Mueller, Janet Borzuchowski
    November 2002 **OOPSLA 2002 Practitioners Reports**
    **Publisher:** ACM Press
    Full text available: ⬚ pdf(145.69 KB)    Additional Information: full citation, abstract, index terms

    Many embedded development environments are stuck somewhere in the backwash of software technology. Structured programming practices, with the artifacts of those methodologies liberally scattered about, are the norm in these environments. The world has changed since structured methodologies first emerged, with shorter and shorter market windows and increasingly sophisticated customers demanding more and more capabilities at lower and lower cost. Embedded system development must also adapt to thes ...

**Keywords**: eXtreme programming, embedded

**7**  Putting the U.S. standardization system into perspective: new insights
Bob Toth
December 1996 **StandardView**, Volume 4 Issue 4
**Publisher:** ACM Press
Full text available: pdf(172.91 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The odds are very high that an American attending an international standardization meeting or consulting in a foreign country will be asked about the U.S. standardization system. How is it organized? Who is responsible for developing standards? How many standards? Who sees to their implementation? What is the government's role? Why is there more than one standard for many commodities? Foreign engineers who are used to dealing with their national standards institute can be very critical of t ...

**8**  Code Checking and Visualization of an Architecture Design
Rong Xu, Wawan Solihin, Zhiyong Huang
October 2004 **Proceedings of the conference on Visualization '04**
**Publisher:** IEEE Computer Society
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Steven W. K. Tjiang, John L. Hennessy
July 1992 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1992 conference on Programming language design and implementation PLDI '92**, Volume 27 Issue 7
**Publisher:** ACM Press
Full text available: pdf(1.20 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

A complex and time-consuming function of a modern compiler is global optimization. Unlike other functions of a compiler such as parsing and code generation which examine only one statement or one basic block at a time, optimizers are much larger in scope, examining and changing large portions of a program all at once. The larger scope means optimizers must perform many program transformations. Each of these transformations makes its own particular demands on the internal representation of p ...

**10**  Projcon: an expert system for project controls in construction management
K. Gates, Mihaly Lenart
June 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '90**
**Publisher:** ACM Press
Full text available: pdf(881.96 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The purpose of this project is to develop methods and strategies for expert system based planning, scheduling, chronicling and analysis for construction management. Planning defines the actions required to accomplish goals or subgoals; scheduling links the plan to a frame of time; chronicling is monitoring job performance and analysis means reevaluation of the plan as conditions change. Conditions are captioned as constrain ...

**11**
Improving visualization: ValueCharts: analyzing linear models expressing preferences and evaluations

Giuseppe Carenini, John Loyd
May 2004 **Proceedings of the working conference on Advanced visual interfaces**
**Publisher:** ACM Press
Full text available: pdf(134.54 KB)    Additional Information: full citation, abstract, references, index terms

In this paper we propose ValueCharts, a set of visualizations and interactive techniques intended to support decision-makers in inspecting linear models of preferences and evaluation. Linear models are popular decision-making tools for individuals, groups and organizations. In Decision Analysis, they help the decision-maker analyze preferential choices under conflicting objectives. In Economics and the Social Sciences, similar models are devised to rank entities according to an evaluative index ...

**Keywords**: decision analysis, evaluative index, information visualization, interactive techniques, linear model, preference model

**12** Session 8: Evaluating example-based search tools

Pearl Huan Z. Pu, Pratyush Kumar
May 2004 **Proceedings of the 5th ACM conference on Electronic commerce**
**Publisher:** ACM Press
Full text available: pdf(529.97 KB)    Additional Information: full citation, abstract, references, index terms

A crucial element in consumer electronic commerce is a catalog tool that not only finds the product for the user, but also convinces him that he has made the best choice. To do that, it is important to show him ample choices while keeping his interaction effort below an acceptable limit. Among the various interaction models used in operational e-commerce sites, ranked lists are by far the most popular tool for product navigation and selection. However, as the number of product features and the c ...

**13** Dissertation Abstracts in Computer Graphics

January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1
**Publisher:** ACM Press
Full text available: pdf(2.53 MB)    Additional Information: full citation

**14** Construction of the planar partition postal code map based on cadastral reGIStration

Friso Penninga, Edward Verbree, Wilko Quak, Peter van Oosterom
November 2003 **Proceedings of the 11th ACM international symposium on Advances in geographic information systems**
**Publisher:** ACM Press
Full text available: pdf(847.15 KB)    Additional Information: full citation, abstract, references, index terms

Accurate postal code maps could play an important role within GIS as the postal code has the potential to link the address description of buildings and their location in a certain global reference system. This relationship is possible in both directions: address matching and geocoding. These operators demand a certain mechanism in translating an exact geometric position (i.e. WGS84 coordinate) into a location indication (town, street, house number) and vice versa. As most built-up parcels are pr ...

**Keywords**: GIS, skeletonization, triangulation

**15** Structural concrete and some numerical solutions

Muharrem Sargin, V. K. Handa
January 1968 **Proceedings of the 1968 23rd ACM national conference**

**Publisher:** ACM Press

Full text available: pdf(692.47 KB)    Additional Information: full citation, abstract, references, index terms

> Until recently, design and analysis of most concrete structures have been based on elastic or working stress theory. 1In this method, concrete and steel stresses under working load are limited to some fraction of their corresponding strengths and it is implied that the structure has the same factor of safety against failure. However, it is well known that concrete and steel are not elastic up to failure and there is no direct relationship between strength and deformatio ...

**16** Interactive on-line computing in structural design                                        ☐

William H. Rowan, Stanley D. Lindsey

June 1970 **Proceedings of the 7th workshop on Design automation**

**Publisher:** ACM Press

Full text available: pdf(641.78 KB)    Additional Information: full citation, abstract, references, index terms

> An approach to building an open ended interactive structural design system for use from a remote time-sharing console is presented. The system is modular and hence may be modified by adding or deleting modules or adjusting various modules to reflect building code changes or the availability of new materials. The connectivity of the system is determined largely by the designer who provides the interface. As the designer becomes more familiar with a particular aspect of a design he ...

**17** A preprocessor for structural analysis programs                                          ☐

Peter K. Ho

June 1976 **Proceedings of the 13th conference on Design automation**

**Publisher:** ACM Press

Full text available: pdf(589.56 KB)    Additional Information: full citation, abstract, references, index terms

> This preprocessor generates and updates input data on the geometry and properties of a structure and its foundation, and on gravity, seismic and other loadings.

**18** Uncovering expectations of web site visitors and building a site that makes            ☐
discovering IT easy

Warren Mayer, Todd Krupa

November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services**

**Publisher:** ACM Press

Full text available: pdf(654.80 KB)    Additional Information: full citation, abstract, references, index terms

> Two years after transforming its World Wide Web presence and publishing process, Information & Access Technology Services at the University of Missouri-Columbia embarked on developing and publicly documenting another online redesign: the evolution from a "best guess" to "can't miss" site.Armed with 24 months of use data and feedback from surveys and focus groups, IAT Services was able to combine known strengths of the 2000 site and develop solutions from suggestions for the 2002 site. The entire ...
>
> **Keywords:** Web site, accessibility, advertising, computing, customer service, design, document management, focus groups, graphic design, information technology, news, online information, personalized web content, print publications, statistical reporting, telecommunications, usability, user guides, user interface

**19** Recommending or persuading?: the impact of a shopping agent's algorithm on user       ☐
behavior

Gerald Häubl, Kyle B. Murray

October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce**
**Publisher:** ACM Press

Full text available: 🔁 pdf(245.22 KB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper investigates the potential of recommendation agents for electronic shopping to influence human decision making by shaping user preferences. Specifically, we examine how the type of information that is elicited by a shopping agent for use in its recommendation algorithm may affect consumers'preference for product features and ultimately their product choice in an electronic marketplace. A recommendation agent is defined as a software tool that (a) calibrates a model of a user's prefere ...

**20** <u>Extractor codes</u>

Amnon Ta-Shma, David Zucherman
July 2001 **Proceedings of the thirty-third annual ACM symposium on Theory of computing**
**Publisher:** ACM Press

Full text available: 🔁 pdf(246.50 KB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We define new error correcting codes based on extractors. We show that for certain choices of parameters these codes have better list decoding properties than are known for other codes, and are provably better than Reed-Solomon codes. We further show that codes with strong list decoding properties are equivalent to slice extractors, a variant of extractors. We give an application of extractor codes to extracting many hardcore bits from a one-way function, using few auxiliary random bits. Fi ...

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**1**   ORACLE a tool for learning compiler writing                                        ☐
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        February 1977 **ACM SIGCSE Bulletin , Proceedings of the seventh SIGCSE technical
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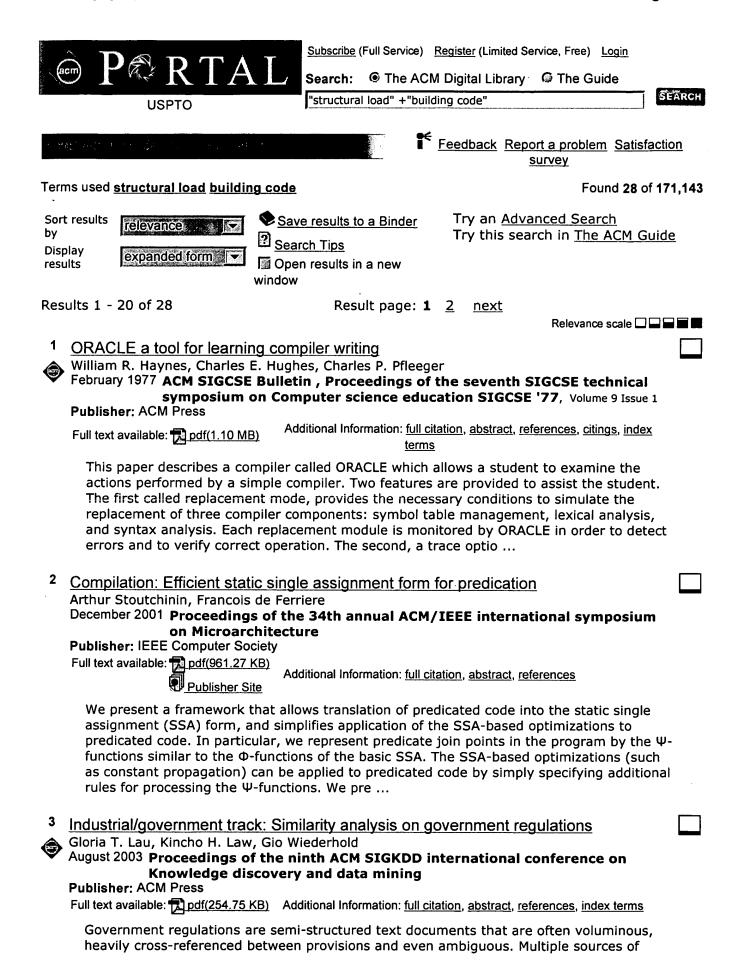                                                                        terms

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December 1996 **StandardView**, Volume 4 Issue 4
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**11**
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Giuseppe Carenini, John Loyd
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**Keywords:** decision analysis, evaluative index, information visualization, interactive techniques, linear model, preference model

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Pearl Huan Z. Pu, Pratyush Kumar
May 2004 **Proceedings of the 5th ACM conference on Electronic commerce**
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**15** Structural concrete and some numerical solutions
Muharrem Sargin, V. K. Handa
January 1968 **Proceedings of the 1968 23rd ACM national conference**

**Publisher:** ACM Press

Full text available: ▣ pdf(692.47 KB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> Until recently, design and analysis of most concrete structures have been based on elastic or working stress theory. 1In this method, concrete and steel stresses under working load are limited to some fraction of their corresponding strengths and it is implied that the structure has the same factor of safety against failure. However, it is well known that concrete and steel are not elastic up to failure and there is no direct relationship between strength and deformatio ...

**16** <u>Interactive on-line computing in structural design</u>               ☐

William H. Rowan, Stanley D. Lindsey

June 1970 **Proceedings of the 7th workshop on Design automation**

**Publisher:** ACM Press

Full text available: ▣ pdf(641.78 KB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> An approach to building an open ended interactive structural design system for use from a remote time-sharing console is presented. The system is modular and hence may be modified by adding or deleting modules or adjusting various modules to reflect building code changes or the availability of new materials. The connectivity of the system is determined largely by the designer who provides the interface. As the designer becomes more familiar with a particular aspect of a design he ...

**17** <u>A preprocessor for structural analysis programs</u>               ☐

Peter K. Ho

June 1976 **Proceedings of the 13th conference on Design automation**

**Publisher:** ACM Press

Full text available: ▣ pdf(589.56 KB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> This preprocessor generates and updates input data on the geometry and properties of a structure and its foundation, and on gravity, seismic and other loadings.

**18** <u>Uncovering expectations of web site visitors and building a site that makes</u>  ☐
<u>discovering IT easy</u>

Warren Mayer, Todd Krupa

November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services**

**Publisher:** ACM Press

Full text available: ▣ pdf(654.80 KB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> Two years after transforming its World Wide Web presence and publishing process, . Information & Access Technology Services at the University of Missouri-Columbia embarked on developing and publicly documenting another online redesign: the evolution from a "best guess" to "can't miss" site.Armed with 24 months of use data and feedback from surveys and focus groups, IAT Services was able to combine known strengths of the 2000 site and develop solutions from suggestions for the 2002 site. The entire ...

> **Keywords:** Web site, accessibility, advertising, computing, customer service, design, document management, focus groups, graphic design, information technology, news, online information, personalized web content, print publications, statistical reporting, telecommunications, usability, user guides, user interface

**19** <u>Recommending or persuading?: the impact of a shopping agent's algorithm on user</u>  ☐
<u>behavior</u>

Gerald Häubl, Kyle B. Murray

October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce**
**Publisher:** ACM Press

Full text available: 📄 pdf(245.22 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper investigates the potential of recommendation agents for electronic shopping to influence human decision making by shaping user preferences. Specifically, we examine how the type of information that is elicited by a shopping agent for use in its recommendation algorithm may affect consumers'preference for product features and ultimately their product choice in an electronic marketplace. A recommendation agent is defined as a software tool that (a) calibrates a model of a user's prefere ...

**20** <u>Extractor codes</u>

Amnon Ta-Shma, David Zucherman

July 2001 **Proceedings of the thirty-third annual ACM symposium on Theory of computing**
**Publisher:** ACM Press

Full text available: 📄 pdf(246.50 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We define new error correcting codes based on extractors. We show that for certain choices of parameters these codes have better list decoding properties than are known for other codes, and are provably better than Reed-Solomon codes. We further show that codes with strong list decoding properties are equivalent to slice extractors, a variant of extractors. We give an application of extractor codes to extracting many hardcore bits from a one-way function, using few auxiliary random bits. Fi ...

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